




# Wisconsin DNR

Lloyd Eagan  
Air Director

# Diesel Workshop

- ◆ Status of Wisconsin's Air Quality
  - ◆ Impacts of Diesel
  - ◆ What Wisconsin is doing to Address Diesel Emissions
  - ◆ Conclusions
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- A stylized, layered mountain range graphic in shades of teal and blue, located in the bottom right corner of the slide.

# Door County



# Near Lake Michigan in Milwaukee



# Nicolet National Forest, in Oconto County



[www.neurophys.wisc.edu/wisc\\_pic\\_tour.html](http://www.neurophys.wisc.edu/wisc_pic_tour.html)



# Wyalusing State Park



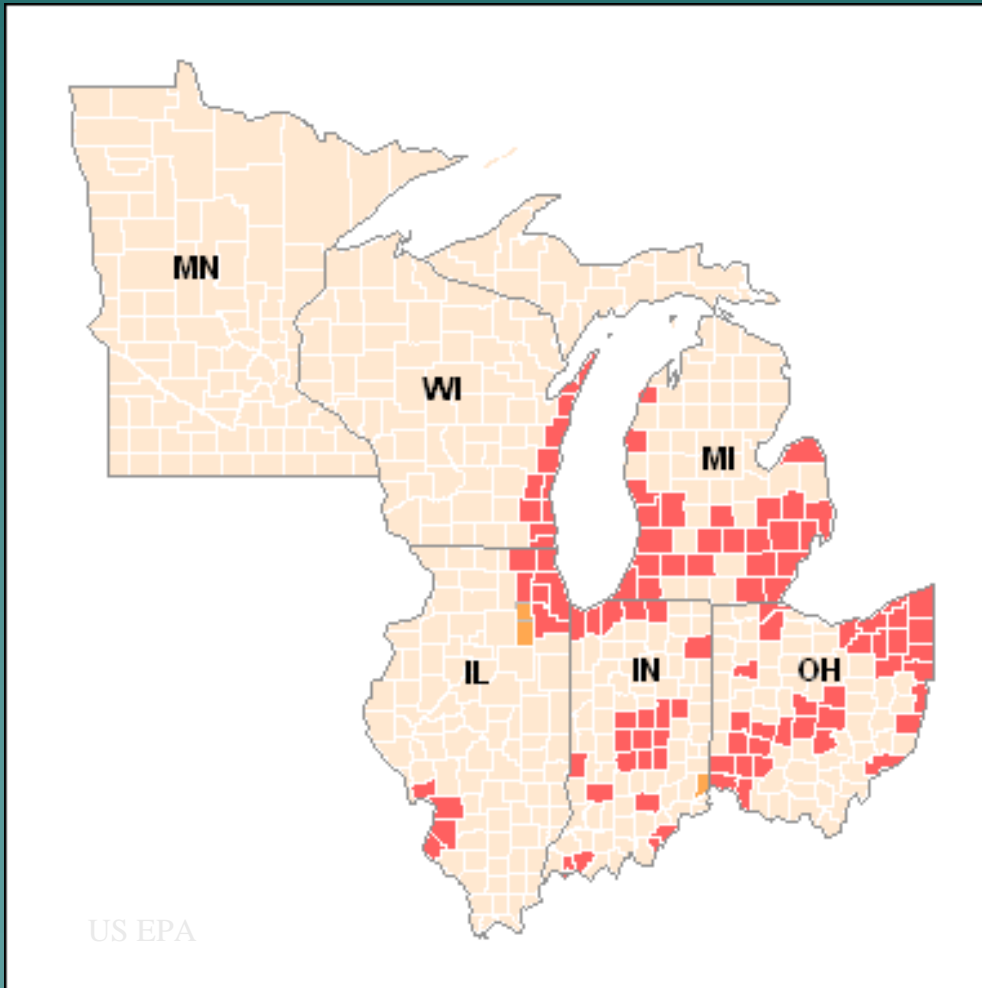
[www.neurophys.wisc.edu/wisc\\_pic\\_tour.html](http://www.neurophys.wisc.edu/wisc_pic_tour.html)

# WI Air Quality

Not always a pretty  
picture



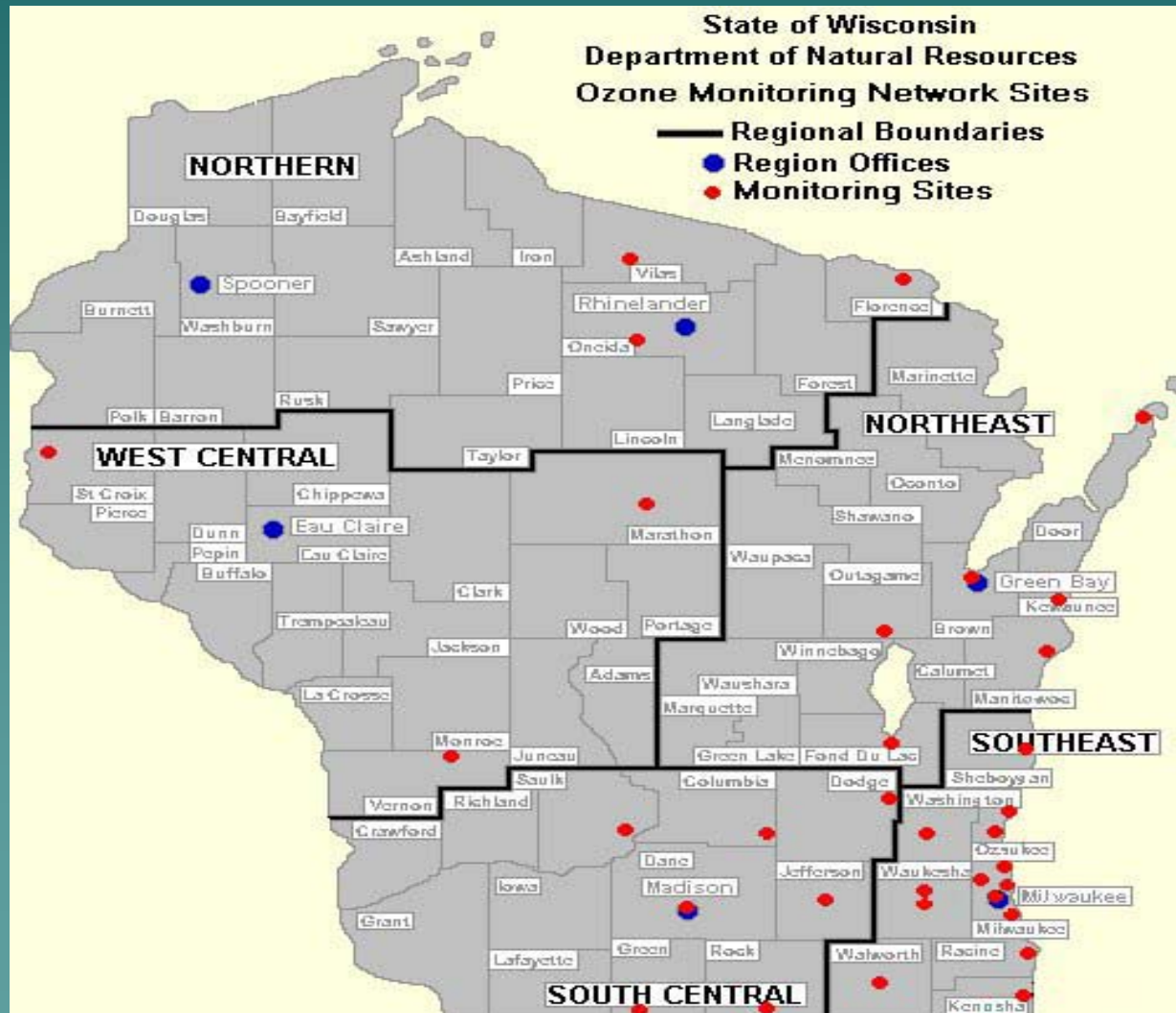
# Wisconsin O<sub>3</sub> 8-hr Nonattainment Areas



- ◆ 10 Lakeshore counties
- ◆ Population ~ 2,120,000 citizens
- ◆ ~ 40% of Wisconsin's population
- ◆ Attainment Dates
  - 3 northern counties - basic - June 2009
  - 7 other counties - moderate - June 2010



# 2005 OZONE MONITORING NETWORK



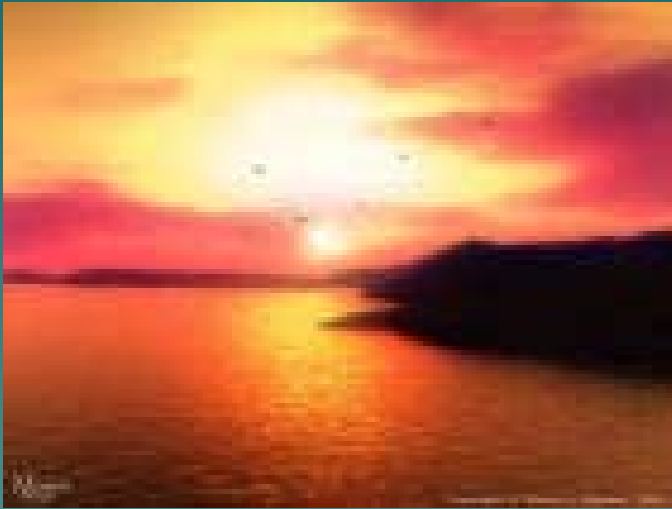
# PM2.5



- ◆ Met ambient air quality standards
- ◆ Still have concerns
- ◆ Currently issue air quality health advisories
- ◆ List Serve



# Haze



- ◆ Two monitoring locations – Milwaukee and Mayville

# Milwaukee

Haze



Ideal  
Conditions



# Mayville

June 2003



# Upcoming Milestones


ACTIVITY	POLLUTANT	DUE DATE
Submit CAIR Rule	Fine Particulate Matter	September 2006
Submit SIP	Ozone	June 2007
Submit SIP	Haze	January 2008




# Impacts from Diesel

- ◆ Diesel exhaust contributes to our ozone,  $PM_{2.5}$  and air toxics problems
- ◆ In Wisconsin Diesel exhaust accounts for:
  - > 55% of nonroad particle,
  - > 69% of nonroad  $SO_2$  and
  - > 75 % of nonroad  $NO_x$  emissions
- ◆ Over 2 million Wisconsin residents are in “at risk” groups particularly susceptible to the health effects of air pollution


# What are we doing to address diesel emissions?

- ◆ Addressing new engines and fuels is a great start but not enough!
  - ◆ National and State voluntary programs are aimed at in-use vehicles
  - ◆ Wisconsin encourages and actively supports voluntary actions to complement the SIP effort through extensive partnerships.
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# What are we doing to address diesel emissions? (cont'd\_

- ◆ WDNR is working with 18 school bus companies and school districts to retrofit school buses with DOC's
  - ◆ WDNR & City of Milwaukee DPW are working to retrofit about 90 garbage trucks with DOCs
  - ◆ Sought 2 grants for electrification units at large truck stops
  - ◆ Sought funding for trying APUs on a few trucking fleets.
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# What are we doing to address diesel emissions? (cont'd\_

- ◆ Exploring ways to retrofit construction equipment and develop idling limits.
  - ◆ Sought funding to install DOC's on a wide variety of equipment burning lower sulfur on-road diesel fuels.
  - ◆ Wisconsin Partners for Clean Air – 1996
  - ◆ Other Parties – e.g. Dane County Clean Air Coalition...
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# Conclusions

- ◆ Mandatory and voluntary measures are needed to reduce emissions to improve health and economic vitality for Wisconsin.
  - ◆ Diesel vehicles are an important factor in these efforts.
  - ◆ Tackling diesel will result in cleaner air and better health for all
  - ◆ Environmental benefits will translate into economic benefits
  - ◆ Voluntary actions can reduce dependence on regulatory actions.
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# Questions?

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